4.4			
HL	Application No.	Angliagata	
	Application No.	Applicant(s)	
Notice of Allowability	09/899,645	LI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Russell Kallis	1638	
The MAILING DATE of this communication appearance of the communication appearance of the communication appearance of the communication appearance of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED if or other appropriate comming IGHTS. This application is	n this application. If not include the included in the included included in the included included in the included inclu	uded ue course. THIS
1. This communication is responsive to <u>amendment filed 1/12</u>	<u>2/2005</u> .		
2. A The allowed claim(s) is/are 5,7,8,10-12,17,21,22,24-30,37	-39 renumbered 1-7, 11-19,	<u>8-10.</u> .	
3. The drawings filed on are accepted by the Examine	er.		
 4. Acknowledgment is made of a claim for foreign priority unally all blooms. a) All blooms. b) Some* clooms. certified copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents. 3. Copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents. * Certified copies not received: 	e been received. e been received in Application	on No	cation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	e a reply complying with the	requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 Cl	he drawings in the front (not t FR 1.121(d).	he back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted OLOGICAL MATERIAL.	. Note the
Attachment(s)	_		
1. Notice of References Cited (PTO-892)		formal Patent Application (P	TO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date <u>2/4/2005</u> .	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	08), 7. ⊠ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's	Statement of Reasons for A	llowance

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

9. Other ____.

Page 2

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Saravitz on 4/4/2005.

The application has been amended as follows:

Claims 13 and 14 are canceled.

In the claims:

Claim 5 (Currently amended) A method for decreasing β -oxidation in a plant or plant part comprising introducing into [at least one cell of] said plant or plant part a nucleotide construct comprising a promoter operably linked to an acyl-CoA thioesterase nucleotide sequence, wherein said promoter drives expression in a plant cell, and said nucleotide sequence is selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO: 1;
- (b) a nucleotide sequence which encodes a polypeptide comprising the amino acid sequence set forth in SEQ NO: 2;
- (c) a nucleotide sequence comprising at least 95% identity to the nucleotide sequence set forth in SEQ ID NO: 1, wherein said nucleotide sequence encodes a polypeptide having acyl-CoA thioesterase activity; and
 - (d) the nucleotide sequence that is <u>fully</u> complementary to the nucleotide sequence of (a),

Art Unit:

(b), or (c);

wherein the level of acyl-CoA thioesterase is increased and the level of oil or the level of at least one oil constituent is increased in said plant or at least one part of said plant, thereby decreasing β -oxidation in the plant, and wherein said part is selected from the group consisting of a fruit, a seed, and an embryo.

Claim 12 (Currently amended) The method of claim 5, wherein said oil constituent comprises a fatty acid selected from the group consisting of vernolic acid, petroselinic acid, sterculic acid, lesquerolic acid, densipolic acid, auricolic acid, cis-5-eicosenoic acid, cis-5-docosenoic acid, cis-5,13-docosdienoic acid, chaulmoogric acid, erucic acid, ricinoleic acid, labellenic acid, crepenynic acid and stearolic acid. [is selected from the group consisting of unusual fatty acids, unusual fatty acyl chains and triacylglycerols with at least one unusual fatty acyl chain.]

Claim 21 (Currently amended) A transformed plant [comprising in its genome]

expressing a stably incorporated nucleotide construct in its genome comprising a promoter that drives expression in a plant operably linked to a nucleotide sequence encoding an acyl-CoA thioesterase, said nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO: 1;
- (b) a nucleotide sequence comprising at least 95% identity to the nucleotide sequence set forth in SEQ ID NO: 1, wherein said nucleotide sequence encodes a polypeptide having acyl-CoA thioesterase activity; and
- (c) the nucleotide sequence that is <u>fully</u> complementary to the nucleotide sequence of (a) or (b);

Application/Control Number: 09/899,645

Art Unit: 1638

wherein the level of acyl-CoA thioesterase is [decreased or] increased in said plant or at least one part of said plant, said part selected from the group consisting of a fruit, a seed, and an embryo.

Claim 24 (Currently amended) The plant of claim 21, wherein said plant produces at least one unusual fatty acyl chain in its seeds, wherein said fatty acyl chain comprises a fatty acid selected from the group consisting of vernolic acid, petroselinic acid, sterculic acid, lesquerolic acid, densipolic acid, auricolic acid, cis-5-eicosenoic acid, cis-5-docosenoic acid, cis-5,13-docosdienoic acid, chaulmoogric acid, erucic acid, ricinoleic acid, labellenic acid, crepenynic acid and stearolic acid.

Claim 30 (Currently amended) A transformed plant cell [comprising in its genome]

expressing a stably incorporated nucleotide construct in its genome comprising a promoter that drives expression in a plant operably linked to a nucleotide sequence encoding an acyl-CoA thioesterase, said nucleotide sequence selected from the group consisting of:

- (a) the nucleotide sequence set forth in SEQ ID NO: 1;
- (b) a nucleotide sequence comprising at least 95% identity to the nucleotide sequence set forth in SEQ ID NO: 1, wherein said nucleotide sequence encodes a polypeptide having acyl-CoA thioesterase activity; and
- (c) the nucleotide sequence that is <u>fully</u> complementary to the nucleotide sequence of (a) or (b);

wherein the level of acyl-CoA thioesterase is [decreased or] increased in said plant cell.

Application/Control Number: 09/899,645 Page 5

Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (571) 272-0804. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russell Kallis PhD February 7, 2005

PHUONG T. BUI 2/10/05
PRIMARY EXAMINER